UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/091,658	03/04/2002	Juan-Antonio Sanchez-Herrero	53806-00005USPT	7238

27045 7590 04/18/2007		EXAMINER
ERICSSON INC.		NGUYEN, THANH T
6300 LEGACY DRIVE		

ART UNIT	PAPER NUMBER
2144	

M/S EVR 1-C-11
PLANO, TX 75024

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
Office Action Summary	10/091,658	SANCHEZ-HERRERO ET AL.
	Examiner	Art Unit	
	Tammy T. Nguyen	2144	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *(3)* MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *30 March 2007*.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-14,17-33 and 35-37* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-14,17-33 and 35-37* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *04 March 2002* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some *   c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.
5)☐ Notice of Informal Patent Application (PTO-152)
6)☐ Other: _____.

UNITED STATES PATENT AND TRADEMARK OFFICE

Detailed Office Action

1.   A request for continued examination under 37 CFR 1.114, including the fee set forth

in 37 CFR 1.17(e), was filed in this application after final rejection. Since this

application is eligible for continued examination under 37 CFR 1.114, and the fee set

forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office

action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed

on March 30, 2007 has been entered.

2.   Claims 1-37 are pending.

Claim Rejections - 35 USC § 103

3.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

4.   Claims 1-10, 14-22, 25-31, 34-37 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Chang et al., (hereinafter Chang) U.S. Patent No. 6,681,114 in

view of Philyaw., (hereinafter Philyaw) U.S. Patent 6,835,799.

5.   As to claim 1, Chang discloses the invention substantially as claimed, Change teaches

including in a network resolution domain having a plurality of users identifiers on a

per subscriber basis for identifying a user under different service environments, a

User Distribution Server (UDS) disposed to determine from a plurality of network

servers the specific network server in charge of said user under a particular service

environment, said UDS comprising: a secondary database having a user identifier

(fig.3, profile database 107); a mechanism for transferring user identifiers and said

selected service data to said secondary database from primary databases associated

with respective network servers (fig.3, profile proxy server 108); a querying

mechanism for receiving a service request from a Service Requester Node (fig.3,

112)(fig.3, message server 106); and a response mechanism for sending a server

identifier of said specific network server to the Service Requester, wherein the server

identifier is usable by said Service Requester Node (Fig.3, 112) to determine said

specific network server (Fig.3, SGSN 152). However, Chang does not explicitly

teach having storage for plurality of user identifiers for identifying the user different

service environments, and selected service data per specific network server and per

user basis.

6.   In the same field of endeavor, Philyaw discloses (e.g., method and apparatus for

tracking… a global network). Philyaw discloses having storage for plurality of user

. identifiers for identifying the user different service environments, and selected service

data per specific network server and per user basis [see Philyaw col.26, lines 1-29 and

col.28, lines 1-20](the software hosted on the PC may also track the user activities

and interests as the user visits various web sites disposed on the response to certain

aspects of the user profile obtained form the CRS database).

7.   Accordingly, it would have been obvious to one of ordinary skill in the networking

art at the time the invention was made to have incorporated Phiyaw's teachings of a

method and apparatus for tracking user profile and habits on a global network with

the teachings of Chang to have storage for plurality of user identifiers for identifying

the user different service environments, and selected service data per specific network

server and per user basis because it would have provided specific functions that

increasing number of companies connecting to perform on-line E-commerce

necessitates a large database [see Philyaw col.3, lines 10-13].

8.   As to claim 2, Chang teaches the invention as claimed, wherein: said response

mechanism transmits an answer comprising, selectively, the specific network server

in charge of said user under a particular service environment; a list of possible servers

if a redundant configuration exists; and a new user identifier with an indication that

another query on said new identifier necessary (see col.6, lines 1-32).

9.   As to claim 3, Chang teaches the invention as claimed, wherein said UDS is adapted

as a first UDS and said network includes a second UDS, and wherein: said transfer,

querying and response mechanism are respectively disposed to transmit data between

fist UDS and second UDS (see col.8, lines 25-34).

10.   As to claim 4, Chang teaches the invention as claimed, wherein: said transferring

mechanism comprises operating means for recovering user identifiers and necessary

service data from specific network servers acting as primary databases (Fig.3, profile

proxy server 108).

11.   As to claim 5, Chang teaches the invention as claimed, wherein: the operating means

includes means for informing said UDS about needs for updating user identifiers

and/or necessary service data at indication from primary databases or another UDS

(fig.3).

12.   As to claim 6, Chang teaches the invention as claimed, wherein: the operating means

includes means for said UDS registering into and withdrawing from all network

servers intended for acting as primary databases (fig.3, profile proxy server 108).

13.   As to claim 7, Chang teaches the invention as claimed, wherein: the operating means

includes means for indicating recovery preferences for recovering user identifiers

and/or necessary service data for all served users, for a specific set of users, or only

for a particular user (fig.3, 112).

14.   As to claim 8, Chang teaches the invention as claimed, wherein: the operating means

further includes means for recovering user identifiers and necessary service data

selectively, for at least one set of: (a) identifiers of a specific type amongst a plurality

of valid identifier types; (b) identifiers used in specific domains; and (c) identifiers

belonging to specific identification spaces in a domain. (see col.6, lines 33-65).

15.   As to claim 9, Chang teaches the invention as claimed, wherein data sensitive to

temporary validity per specific network service include a "Time To Live" (TTL)

parameter intended for determining the needs for data recovery from primary

databases (see col.1, line 62 to col.2, line 5).

16.   As to claim 10, Chang teaches the invention as claimed, further comprising: at least one protocol handler module and, in the event said UDS comprises more than one protocol handler module, a protocol discriminator module, each protocol handler module being in charge of a particular telecommunications protocol (fig.3, IP network 120).

17.   As to claim 12, Chang teaches the invention as claimed, comprising: at least one "Diameter" related protocol handler module (fig.3, IP Network).

18.   As to claim 14, Chang teaches the invention as claimed, comprising: at least one "Radius" related protocol handler module (fig.3).

19.   As to claim 15, Chang teaches the invention as claimed, further comprising protocol and processing means for responding to the service request using an external database not intended for acting as primary database or as another UDS (see fig.3).

20.   As to claim 16, Chang teaches the invention as claimed, wherein said external database is a number portability database (see col.4, lines 1-15).

21.   As to claim 17, Chang teaches the invention as claimed, including a telecommunications system comprising: at least one subscriber having a identifying said subscriber under different service environments (Fig.3, 112); a plurality of servers (Fig.2 server 106a, 106b, ...106d); and a User Distribution Server (UDS) for determining a specific network server in charge of said user under a particular service environment, wherein said UDS comprises: a secondary database (fig.3, profile database 107); a mechanism for transferring user identifiers and said selected service data to said secondary database from selected servers acting as primary databases

(fig.3, profile proxy server 108); a querying mechanism for receiving a service

request from a Service Requester Node (fig.3, 112)(fig.3, message server 106); and a

response mechanism for sending a server identifier of said specific network server to

the Service Requester Node in response to said service request (Fig.3, SGSN 152).

However, Chang does not explicitly teach having storage for plurality of user

identifiers for identifying the user different service environments, and selected service

data per specific network server and per user basis.

22.   In the same field of endeavor, Philyaw discloses (e.g., method and apparatus for

tracking… a global network). Philyaw discloses having storage for plurality of user

identifiers for identifying the user different service environments, and selected service

data per specific network server and per user basis [see col.26, lines 1-29 and col.28,

lines 1-20](the software hosted on the PC may also track the user activities and

interests as the user visits various web sites disposed on the response to certain

aspects of the user profile obtained form the CRS database).

23.   Accordingly, it would have been obvious to one of ordinary skill in the networking

art at the time the invention was made to have incorporated Phiyaw's teachings of a

method and apparatus for tracking user profile and habits on a global network with

the teachings of Chang to have storage for plurality of user identifiers for identifying

the user different service environments, and selected service data per specific network

server and per user basis because it would have provided specific functions that

increasing number of companies connecting to perform on-line E-commerce

necessitates a large database [see Philyaw col.3, lines 10-13].

24.   As to claim 18, Chang teaches the invention as claimed, wherein: relevant user

identifiers in at least one of a plurality of primary databases may be submitted for

updating to one specific UDS, to a group of UDS, or to all UDS known at said at least

one of a plurality of primary database, selectively (Fig.3, profile proxy server 108,

profile database 107).

25.   As to claim 19, Chang teaches the invention as claimed, wherein: at least one of the

plurality of primary databases is arranged for receiving UDS recovery preferences

from one specific UDS, from a group of UDS, or from all UDS known at said at least

one primary database, selectively, and for updating each UDS accordingly with each

of the recovery preferences (fig.3).

26.   As to claim 20, Chang teaches the invention as claimed, wherein: the UDS acts as a

Subscription Locator Function (SLF) (see col.7, lines 55-61).

27.   As to claim 22, Chang teaches the invention as claimed, wherein: at least one of the

plurality of specific servers acting as primary databases is a Presence Server (Fig.3,

profile proxy server).

28.   As to claim 25, Chang teaches the invention as claimed, wherein: at least one of the

plurality of Service Requester Nodes is a Mobile Switching Center (MSC) (see col.7,

lin55 to col.8, line 10).

29.   As to claim 26, Chang teaches the invention as claimed, wherein: at least one of the

plurality of Service Requester Nodes is a Signaling Gateway (fig.3, 112).

30.   As to claim 27, Chang teaches the invention as claimed, wherein: at least one of the

plurality of Service Requester Nodes is a GPRS Supporting Node (fig.3, 112).

31.   As to claim 28, Chang teaches the invention as claimed, wherein: at least one of the

plurality of Service Requester Nodes is an Application Server (AS) intended for

multimedia related use (see col.9, lines 15-60).

32.   As to claim 29, Chang teaches the invention as claimed, wherein: at least one of the

plurality of Service Requester Nodes is an Open Service Architecture Service

Capability Server (see fig.2, servers).

33.   As to claim 30, Chang teaches the invention as claimed, wherein: at least one of the

plurality of Service Requester Nodes is a Multimedia Messaging Server (fig.3,

message server 106).

34.   As to claim 31, Chang teaches the invention as claimed, wherein: at least one of the

plurality of Service Requester Nodes is a CAMEL Gateway Server (Fig.3, gateway

111).

35.   As to claim 34, Chang teaches the invention as claimed, wherein: at least one of the

plurality of external databases used for resolution is a number portability database

(fig.3).

36.   As to claim 35, Chang teaches the invention as claimed, including in a network

resolution domain having a per subscriber basis for identifying a user under different

service environments, and wherein a User Distribution Server (UDS) is disposed to

determine from a plurality of network servers the specific network server in charge of

said user under a particular service environment, a method for operating the UDS

comprising the steps of: establishing a secondary database in said UDS for storing

user identifiers (fig.3, profile database 107); transferring user identifiers and said

selected service data to said secondary database from primary databases associated

with respective network servers (fig.3, profile proxy server 108); receiving a service

request from a Service Requester Node (fig.3, 112)(fig.3, message server 106); and

sending a server identifier of said specific network server from said UDS to said

Service Requester Node (Fig.3, 112) in response to said request, said server identifier

usable by said Service Requester Node to determine and specific network server

(Fig.3, SGSN 152). However, Chang does not explicitly teach having storage for

plurality of user identifiers for identifying the user different service environments,

and selected service data per specific network server and per user basis.

37.   In the same field of endeavor, Philyaw discloses (e.g., method and apparatus for

tracking... a global network). Philyaw discloses having storage for plurality of user

identifiers for identifying the user different service environments, and selected service

data per specific network server and per user basis [see col.26, lines 1-29 and col.28,

lines 1-20](the software hosted on the PC may also track the user activities and

interests as the user visits various web sites disposed on the response to certain

aspects of the user profile obtained form the CRS database).

38.   Accordingly, it would have been obvious to one of ordinary skill in the networking

art at the time the invention was made to have incorporated Phiyaw's teachings of a

method and apparatus for tracking user profile and habits on a global network with

the teachings of Chang to have storage for plurality of user identifiers for identifying

the user different service environments, and selected service data per specific network

server and per user basis because it would have provided specific functions that

increasing number of companies connecting to perform on-line E-commerce

necessitates a large database [see Philyaw col.3, lines 10-13].

39.   As to claim 36, Chang teaches the invention as claimed, wherein: said transmitted

answer comprises, selectively, the specific network server in charge of said user

under a particular service environment; a list of possible servers if a redundant

configuration exists; and a new user identifier with an indication that another query

on said new identifier is necessary (see col.6, lines 1-32).

40.   As to claim 37, Chang teaches the invention as claimed, wherein said UDS comprises

a first UDS and said network includes a second UDS, and wherein: said transfer,

receiving and answer transmitting steps, respectively include data transmission

between said first UDS and said second UDS (see col.8, lines 25-34).

41.   Claims 11, 13, 21, 23, 24, 32, and 33 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Chang et al., (hereinafter Chang) U.S. Patent No. 6,681,114 and

Philyaw., (hereinafter Philyaw) U.S. Patent 6,835,709 in view of Richard Paul Ejzak.,

(hereinafter Ejzak) U.S. Patent No. 6,871,070.

42.   As to claims 11 and 32, Chang, and Philyaw do not explicitly teach domain name

server (DNS). However, Ejzak teaches Domain Name Server (see col.8, lines 58-67).

It would have been obvious to one of ordinary skill in the art at the time of the

invention was made to implement the teachings of Ejzak into the computer system of

Chang to have a Domain Name Server because it would have provided specific

functions that can Translating the name into the IP address.

43.   As to claims 13, and 33, Chang and Philyaw do not explicitly teach "Light-Weight

Directory Access Protocol (LDAP)".   However, Ejzak teaches Light-Weight

Directory Access Protocol (LDAP)(see col.6, lines 56-67).   It would have been

obvious to one of ordinary skill in the art at the time of the invention was made to

implement the teachings of Ejzak into the computer system of Chang to have Light-

Weight Directory Access Protocol because it would have provided specific functions

that can make it possible for almost any application running on virtually any

computer platform to obtain directory information, such as email addresses and public

keys.

44.   As to claim 21, Chang, and Philyaw do not explicitly teach a Home Subscription

Server (HSS). However, Ejzak teaches Home Subscription Server (HSS) (see col.4,

lines 13-21, and col.6, lines 26-31).   It would have been obvious to one of ordinary

skill in the art at the time of the invention was made to implement the teachings of

Ejzak into the computer system of Chang to have Home Subscription Server (HSS)

because it would have provided specific functions can be used to provide high-speed

connectivity between LANs, such as token ring and Ethernet.

45.   As to claim 23, Chang, and Philyaw do not explicitly teach Interrogating Call Status

Control Function (I-CSCF). However, Ejzak teaches Interrogating Call Status

Control Function (see col.7, lines 50-67, and col.10, lines 16-38). It would have been

obvious to one of ordinary skill in the art at the time of the invention was made to

implement the teachings of Ejzak into the computer system of Chang to have

Interrogating Call Status Control Function (I-CSCF) because it would have provided

specific functions to be furnished with the actual name or address of the HSS holding

the data for the particular subscriber.

46.   As to claim 24, Chang, and Phiyaw do not explicitly teach a Serving Call Status

Control Function (S-CSCF). However, Ejzak teaches a Serving Call Status Control

Function (S-CSCF) (see col.14, lines 11-42). It would have been obvious to one of

ordinary skill in the art at the time of the invention was made to implement the

teachings of Ejzak into the computer system of Chang to have a Serving Call Status

Control Function (S-CSCF because it would have provided specific functions to be

furnished with the actual name or address of the HSS holding the data for the

particular subscriber.

Conclusion

47.   Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Tammy T. Nguyen whose telephone number is 571-272-

3929. The examiner can normally be reached on Monday - Friday 8:30 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, *William Vaughn* can be reached on 571-272-3922. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status information for

unpublished applications is available through Private PAIR only. For more information about

the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

If you would like assistance from a USPTO Customer Service Representative or access to the

automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

April 14, 2007

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